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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,962	04/25/2001	Motofumi Kakiuchi	2000-127065US	5696

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EXAMINER	
RYMAN, DANIEL J	
ART UNIT	**PAPER NUMBER**
2665	

DATE MAILED: 08/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

H13

Office Action Summary	Application No.	Applicant(s)	
	09/840,962	KAKIUCHI, MOTOFUMI	
	Examiner	Art Unit	
	Daniel J. Ryman	2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *25 April 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-12* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-12* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *25 April 2001* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *5/15, 9/25/03*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements filed 5/15/03 and 9/25/03 fail to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

Drawings

2. Figures 10 and 11 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: ref. B13 (see pg. 29, lines 9-11 and Fig. 5). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior

version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to because one of the ref. 202 in Fig. 11 should be ref. 211 to match the specification (see pg. 6, line 6). Also, ref. 215 is labeled "On-hook" in the drawing, but "off-hook" in the specification. See pg. 6, line 19 and Fig. 11. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

5. The disclosure is objected to because of the following informalities: on page 5, line 2, "step 207" should be "step 203" to match Fig. 11; on page 5, line 9, and page 5, line 12, "Fi. 11" should be "Fig. 11".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frankel et al. (USPN 6,639,913).

8. Regarding claims 1, 6, and 10, Frankel discloses a network system, wherein a first adapter (ref. 100: RDT) implementing a protocol conversion method is connected between a local area network (ref. 60: LPN) and a telephone (ref. 10: TD) (col. 4, lines 48-65), and a second adapter (ref. 200: HDT) implementing a protocol conversion method is connected between said local area network and a PSTN switch (col. 5, lines 8-22 and col. 5, lines 30-35), each of said first adapter and said second adapter comprising the following means for implementing the method: a first interface being connected to said telephone or said PSTN switch via a digital multiple signal line (col. 4, lines 51-56 and col. 5, lines 15-16) where T1, ISDN, and optical fibers are, as broadly defined, "digital multiple signal lines" since these lines carry multiple digital signal; a second interface connected to said local area network (col. 4, lines

48-65 and col. 5, lines 8-22); a signal class detector for detecting a signal class (voice or control) of an input signal input via said first interface (col. 6, lines 46-60); packet preparation means for preparing a packet that has been obtained by implementing a first protocol conversion for said input signal that includes identification information (identifier or flag) of said corresponding signal class and that was input via said first interface based on said signal class detected by said signal class detector to send this packet to said local area network via said second interface (col. 7, lines 31-45; col. 8, lines 24-48; and col. 10, lines 18-38); and process means for identifying a signal class from said packet input from said local area network via said second interface to implement a second protocol conversion for data of said corresponding input packet responding to said identified signal class, to prepare a digital signal, and to output this digital signal to said first interface (col. 7, lines 31-45; col. 8, lines 24-48; and col. 10, line 66-col. 11, line 6).

Frankel does not expressly disclose that the telephones are digital telephones. However, Frankel does disclose that the phones can interface with the interface using an ISDN line (col. 4, lines 48-65). Frankel also discloses that telephone companies are increasingly using digital technology to deliver phone service (col. 1, lines 34-38) and that a PC implementing a telephone function can be used (col. 6, lines 32-36). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use digital telephone since telephone companies are increasingly using digital technology, as suggested by Frankel.

Frankel does not expressly disclose that the second adapter is connected to a private branch exchange. However, Frankel does disclose that the second adapter is connected to a PSTN switch (col. 5, lines 8-36). Frankel also discloses that the first adapter can be connected to a PBX (col. 4, lines 48-51). Thus, it would have been obvious to one of ordinary skill in the art at

the time of the invention to connect the second adapter to a PBX since a PBX is a version of a PSTN switch.

9. Regarding claims 2 and 11, Frankel suggests that said packet preparation means comprise: a header preparation section for preparing a header indicating identification information of said corresponding signal class based on said signal class detected by said signal class detector (col. 8, lines 24-41); a data preparation section for preparing data that has been obtained by implementing said protocol conversion for said input signal input via said first interface based on said signal class detected by said signal class detector (col. 8, lines 24-41); and a packet preparation section for collecting said data from said header preparation section and said data from said data preparation section to prepare one packet and to output it to said second interface (col. 8, lines 24-41).

10. Regarding claims 3 and 12, Frankel suggests that said process means comprise: a header extraction section for extracting a header from said packet input from said network via said second interface (col. 8, lines 24-41); a data extraction section for extracting data from said input packet (col. 8, lines 24-41); and a signal classification data process section for identifying a signal class from said header extracted from said header extraction section to implement said second protocol conversion for said data from said data extraction section responding to this identified signal class and to output it to said first interface (col. 8, lines 24-41).

11. Regarding claim 4, Frankel discloses that said network is a local area network (col. 2, lines 30-36), to said first interface is connected anyone of a multi function telephone or a private branch exchange via said digital signal line (col. 4, lines 48-51 and col. 5, lines 8-23), and said

signal class detector detects that said signal class is anyone of a control signal, a tone signal, and a voice signal (col. 8, lines 24-41).

12. Regarding claims 5 and 7, Frankel suggests that a plurality of said first interfaces are provided to each of said first and said second adapters, to each of said plurality of said first interfaces are connected digital multiple signal lines separately (col. 12, lines 31-64), said packet preparation means includes means for preparing a packet that includes in a header information that to which interface out of said plurality of said first interfaces said packet is sent (col. 12, lines 31-64), and said process means includes means for identifying a signal class from said packet input from said local area network via said second interface to implement a second protocol conversion for data of said corresponding input packet responding to said identified signal class, to prepare a digital signal, and to simultaneously output said digital signal to a designated first interface out of said plurality of said first interfaces based on information obtained from said input packet (col. 12, lines 31-64).

13. Regarding claim 8, Frankel suggests that said second adapter has been built within said private branch exchange (col. 5, lines 9-11; col. 5, lines 34-36; and col. 8, lines 5-9).

14. Regarding claim 9, Frankel suggests that said digital telephone is a multi function telephone (col. 6, lines 32-36), and said private branch exchange is connected to a plurality of multi function telephones (col. 4, lines 48-65 and col. 7, line 57-col. 8, lines 9).

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ehlinger (USPN 6,693,893) see col. 2, lines 8-22, which pertains to classifying PSTN signals and packetizing the different signals. Ford (USPN 6,463,051) see col. 3, lines 22-47,

which pertains to PBXs. Frankel et al. (USPN 6,075,784) see entire document which pertains to classifying PSTN signals and packetizing the different signals

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (571)272-3152. The examiner can normally be reached on Mon.-Fri. 7:00-4:30 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DJR

Daniel J. Ryman
Examiner
Art Unit 2665

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